YORK®
Heating and Air Conditioning

TECHNICAL GUIDE

SPLIT-SYSTEM AIR CONDITIONERS

13 SEER – R-410A

MODELS:
YCJD18 THRU 60
(1.5 THRU 5 NOMINAL TONS, 1 PHASE)

ARI PERFORMANCE CERTIFIED
ARI Standard 210/240
Unitary Air Conditioners

LIMITED WARRANTY TO CONSUMERS
Good Housekeeping
Promises
REPLACEMENT OR REFUND IF DEFECTIVE

c UL us
LISTED

ISO 9000 REGISTRATION
ISO 9001
Certified Quality
Management System

Due to continuous product improvement, specifications are subject to change without notice.

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Additional rating information can be found at www.ahridirectory.org

DESCRIPTION

The 13 SEER Series condensing unit is the outdoor part of a versatile system of air conditioning. It is designed to be custom-matched with one of UPG's complete line of evaporator sections, with each serving a specific function. Matching Air Handlers are available for upflow, downflow, or horizontal applications to provide a complete system. Electric Heaters are available, if required. Add-on coils are available for use with upflow, downflow, or horizontal furnaces and air handlers.

WARRANTY

Single Phase Units:

5-year limited parts warranty.
10-*year limited compressor warranty.*

FEATURES

- **QUALITY CONDENSER COILS -** The coil is constructed of aluminum microchannel tubing and enhanced aluminum fins for increased efficiency and corrosion protection.
- **PROTECTED COMPRESSOR -** The compressor is internally protected against high pressure, temperature, and externally by a factory installed high pressure switch. This is accomplished by the simultaneous operation of high pressure relief valve and a temperature sensor which protects the compressor if undesirable operating conditions occur. A liquid line filter-drier further protects the compressor.
- **DURABLE FINISH -** The cabinet is made of pre-painted steel. The pre-treated galvanized steel provides a better paint to steel bond, which resists corrosion and rust creep. Special primer formulas and matted-textured finish insure less fading when exposed to sunlight.
- **LOWER INSTALLED COST -** Installation time and costs are reduced by easy power and control wiring connections. Available in sweat connect models only. The unit contains enough refrigerant for matching indoor coils and 15 feet of interconnecting piping. The small base dimension means less space is required on the ground or roof.
- **TOP DISCHARGE -** The warm air from the top mounted fan is blown up away from the structure and any landscaping. This allows compact location on multi-unit applications.
- **LOW OPERATING SOUND LEVEL -** The upward air flow carries the normal operating noise away from the living area. The rigid top panel effectively isolates any motor sound. Isolator mounted compressor and the rippled fins of the condenser coil muffle the normal fan motor and compressor operating sounds.
- **LOW MAINTENANCE -** Long life permanently lubricated motor-bearings need no annual servicing.
- **EASY SERVICE ACCESS -** Fully exposed refrigerant connections, and a single panel covering the electrical controls make for easy servicing of the unit.
- **SECURED SERVICE VALVES -** Secured re-usable service valves are provided on both the liquid and vapor sweat connections for ease of evacuating and charging.
- **U.L. and C.U.L. listed -** approved for outdoor application.

Certified in accordance with the Unitary Small Equipment certification program, which is based on ARI Standard 210/240.

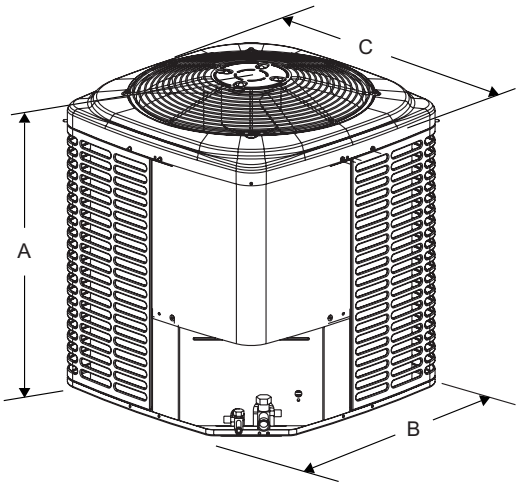
FOR DISTRIBUTION USE ONLY - NOT TO BE USED AT POINT OF RETAIL SALE

Physical and Electrical Data

MODEL		YCJD18 S41S1(H)	YCJD24 S41S1(H)	YCJD30 S41S1(H)	YCJD36 S41S1(H)	YCJD42 S41S1(H)	YCJD48 S41S1(H)	YCJD60 S41S1
Unit Supply Voltage		208-230V, 1ϕ, 60Hz						
Normal Voltage Range [1]		187 to 252						
Minimum Circuit Ampacity		10.0	12.4	14.7	17.9	21.5	21.1	34.3
Max. Overcurrent Device Amps [2]		15	20	25	30	35	35	60
Min. Overcurrent Device Amps [3]		15	15	15	20	25	25	35
Compressor Type		Rotary	Recip	Recip	Recip	Recip	Recip	Scroll
Compressor Amps	Rated Load	7.6	9.3	10.6	13.1	16.0	15.7	26.2
	Locked Rotor	40.0	43.0	54.0	74	84	84	150
Crankcase Heater		No	No	No	No	No	No	No
Fan Motor Amps	Rated Load	0.5	0.8	1.4	1.5	1.5	1.5	1.5
Fan Diameter Inches		17.5	17.5	17.5	22	22	22	24
Fan Motor	Rated HP	1/12	1/8	1/4	1/4	1/4	1/4	1/4
	Nominal RPM	1100	1075	1100	850	850	850	850
	Nominal CFM	1400	1950	2050	3200	2950	2950	3600
Coil	Face Area Sq. Ft.	9.60	9.60	9.60	13.07	14.16	14.16	18.68
	Rows Deep	1	1	1	1	1	1	1
	Fin / Inches	23	23	23	23	23	23	23
Liquid Line Set OD (Field Installed)		3/8	3/8	3/8	3/8	3/8	3/8	3/8
Vapor Line Set OD (Field Installed)		5/8	3/4	3/4	3/4	7/8	7/8	7/8
Unit Charge (Lbs. - Oz.) [4]		3 - 3	3 - 13	3 - 14	4 - 9	4 - 5	4 - 9	5 - 6
Charge Per Foot, Oz.		0.58	0.62	0.62	0.62	0.67	0.67	0.67
Operating Weight Lbs.		97	129	131	145	173	173	195

Models with "H" on the end of the model number have a factory installed start kits.

1. Rated in accordance with ARI Standard 110, utilization range "A".
2. Dual element fuses or HACR circuit breaker. Maximum allowable overcurrent protection.
3. Dual element fuses or HACR circuit breaker. Minimum recommended overcurrent protection.
4. The Unit Charge is correct for the outdoor unit, matched indoor coil and 15 feet of refrigerant tubing. For tubing lengths other than 15 feet, add or subtract the amount of refrigerant, using the difference in length multiplied by the per foot value.



All dimensions are in inches. They are subject to change without notice. Certified dimensions will be provided upon request.

Unit Model	Dimensions (Inches)			Refrigerant Connection Service Valve Size	
	A[1]	B	C	Liquid	Vapor
18	28	23-1/2	23-1/2	3/8"	3/4"
24	28	23-1/2	23-1/2		
30	28	23-1/2	23-1/2		
36	28	29	29		
42	30	29	29		7/8"
48	30	29	29		
60	32	33-5/8	33-5/8		

1. Including Fan Guard.

Additional R-410A Charge / Orifice Size for Various Matched Systems							
Outdoor Unit	YCJD18 S41S1(H)	YCJD24 S41S1(H)	YCJD30 S41S1(H)	YCJD36 S41S1(H)	YCJD42 S41S1(H)	YCJD48 S41S1(H)	YCJD60 S41S1
Required Orifice or TXV [1,2]	0.048 / 902	0.055 / 902	0.061 / 907	0.065 / 903	0.075 / 903	0.073 / 904	0.087 / 905
Factory Charge, lbs-oz	3 - 3	3 - 13	3 - 14	4 - 9	4 - 5	4 - 9	5 - 6
Indoor Coil[3,4]	**Additional Charge, Oz**						
FC/MC/PC/UC18A3X	48 + 0	–	–	–	–	–	–
	902 + 0	–	–	–	–	–	–
FC/MC/PC/UC18B3X	48 + 0	–	–	–	–	–	–
	902 + 0	–	–	–	–	–	–
FC/MC/PC32A3X	–	55 + 4	61 + 0	–	–	–	–
	–	902 + 4	907 + 0	–	–	–	–
FC/MC/PC35B3X	–	55 + 4	61 + 0	–	–	–	–
	–	902 + 4	907 + 0	–	–	–	–
FC/MC/PC35C3X	–	55 + 4	61 + 0	–	–	–	–
	–	902 + 4	907 + 0	–	–	–	–
FC/MC/PC/UC36A3X	–	55 + 0	–	–	–	–	–
	–	902 + 0	–	–	–	–	–
FC/MC/PC/UC36B3X	–	55 + 0	–	–	–	–	–
	–	902 + 0	–	–	–	–	–
FC/MC/PC/UC36C3X	–	55 + 0	–	–	–	–	–
	–	902 + 0	–	–	–	–	–
FC/MC/PC37A3X	–	55 + 4	61 + 2	65 + 0	–	–	–
	–	902 + 4	907 + 2	903 + 0	–	–	–
FC/MC/PC43B3X	–	55 + 4	61 + 2	65 + 0	75 + 0	–	–
	–	902 + 4	907 + 2	903 + 0	903 + 0	–	–
FC/MC/PC43C3X	–	55 + 4	61 + 2	65 + 0	75 + 0	–	–
	–	902 + 4	907 + 2	903 + 0	903 + 0	–	–
FC/MC/PC/UC48C3X	–	–	–	65 + 8	75 + 2	73 + 4	–
	–	–	–	903 + 8	903 + 2	904 + 4	–
FC/MC/PC/UC48D3X	–	–	–	65 + 8	75 + 2	73 + 4	–
	–	–	–	903 + 8	903 + 2	904 + 4	–
FC/MC/PC/UC60D3X	–	–	–	–	–	73 + 0	87 + 0
	–	–	–	–	–	904 + 0	905 + 0
FC/MC62D3X	–	–	–	–	–	–	87 + 4
	–	–	–	–	–	–	905 + 4
HC18A3X	48 + 0	–	–	–	–	–	–
	902 + 0	–	–	–	–	–	–
HC30A3X	–	55 + 0	–	–	–	–	–
	–	902 + 0	–	–	–	–	–
HC36B3X	–	55 + 4	61 + 0	–	–	–	–
	–	902 + 4	907 + 0	–	–	–	–
HC42C3X	–	55 + 4	61 + 2	65 + 0	75 + 0	–	–
	–	902 + 4	907 + 2	903 + 0	903 + 0	–	–
HC60D3X	–	–	–	–	–	–	87 + 0
	–	–	–	–	–	–	905 + 0
AHP18B3X	48 + 0	–	–	–	–	–	–
	902 + 0	–	–	–	–	–	–
AHP30B3X	–	55 + 4	61 + 0	–	–	–	–
	–	902 + 4	907 + 0	–	–	–	–
AHP36C3X	–	–	61 + 2	65 + 0	–	–	–
	–	–	907 + 2	903 + 0	–	–	–
AHP42C3X	–	–	–	65 + 0	75 + 0	–	–
	–	–	–	903 + 0	903 + 0	–	–

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